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**(54) WELDING HEAD AND WELDING EQUIPMENT****(57) Abstract:**

**PURPOSE:** To prevent occurrence of burning on stock surface by having an electrode and inlet port/outlet port of shield gas, arranging an outer frame to shield electrode and weld part of member to be welded from atmosphere and arranging a shield gas supply piping to supply shield gas to inlet port.

**CONSTITUTION:** A ring member 102 made of steel arranged with a tungsten electrode 101 is inserted into an outer frame 104. By a gear 108 arranged the inside of the outer frame, the annular member 102 executes welding with rotating around pipings 103, 103'. High frequency power is supplied to the annular member 102 through a current input terminal arranged in the outer frame from a higher harmonic generator, generating electric discharge between the electrode 101 and piping. The shield gas from an inert gas supply device is supplied to welding space by an inlet port 105, exhausting from an outlet port 106. By this method, atmospheric components are efficiently evacuated outside the outer frame, preventing burning of the surface of member to be welded.

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